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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/809,901	03/26/2004	Hiraku Murayama	018961-068	7688	
21839 BUCHANAN.	21839 7590 07/31/2007 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE BOX 1404			HOEKSTRA, JEFFREY GERBEN		
ALEXANDRIA	A, VA 22313-1404		ART.UNIT PAPER NUMBER		
	•		3736		
			MẠIL DATE	DELIVERY MODE	
		•	07/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/809,901	MURAYAMA ET AL.			
		Examiner	Art Unit			
		Jeffrey G. Hoekstra	3736			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet wi	th the correspondence address			
	ORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EYDIDE 2 M	ONTH(S) OR THIRTY (30) DAYS			
WHI(- Exte after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING DA resistance in the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION 36(a). In no event, however, may a right apply and will expire SIX (6) MON acause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on <u>07 M</u>	a <u>y 2007</u> .				
2a)	This action is FINAL . 2b)⊠ This action is non-final.					
3)						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D	. 11, 453 O.G. 213.			
Disposit	ion of Claims					
4)🖂	Claim(s) 1-4 and 7-14 is/are pending in the app	olication.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
	Claim(s) <u>1-4 and 7-14</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[]	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9) 🗌	The specification is objected to by the Examine	r.				
	The drawing(s) filed on 26 March 2004 is/are: a		ected to by the Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	ion is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	d Office Action or form PTO-152.			
Priority (under 35 U.S.C. § 119		•			
	Acknowledgment is made of a claim for foreign ⊠ All b) Some * c) None of:	priority under 35 U.S.C. §	; 119(a)-(d) or (f).			
	1. Certified copies of the priority documents	s have been received.				
•	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior	•	received in this National Stage			
•	application from the International Bureau	, ,,,				
<i>*</i> ;	See the attached detailed Office action for a list	of the certified copies not	received.			
	•					
•						
Attachmer		_				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date			
3) Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		nformal Patent Application			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/07/2007 has been entered.

Notice of Amendment

2. In response to the amendment filed on 05/0720/07, amended claim(s) 1, canceled claim(s) 5-6, and new claim(s) 12-14 is/are acknowledged. The current rejections of the claim(s) 1-4 and 7-11 is/are *withdrawn*. The following new and reiterated grounds of rejection are set forth:

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

- 4. The disclosure is objected to because of the following informalities: at least page 21 line 7 and page 22 line 1 contain typographical errors where boxes appear to take the place of units of measure. Appropriate correction is required.
- 5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is

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requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

- 6. Claim 3 is objected to because of the following informalities: the positive recitation of "a center layer ... and a surface layer of a mixture" in lines 3-4 appears to duplicate the "center layer", "surface layer", and/or "mixture" structure of claim 1 and appears to render the claim indefinite. Appropriate correction is required.
- 7. Claim 4 is objected to because of the following informalities: the positive recitations of "the content" in lines 3 and 4 appear to lack antecedent basis and appear to render the claim indefinite. Appropriate correction is required.
- 8. Claim 8 is objected to because of the following informalities: the positive recitations of "the content" in lines 7 and 8-9 appear to lack antecedent basis and appear to render the claim indefinite. Appropriate correction is required.
- 9. Claim 9 is objected to because of the following informalities: the positive recitation of "the content" in lines 8-9 appears to lack antecedent basis and appears to render the claim indefinite. Appropriate correction is required.
- 10. Claim 11 is objected to because of the following informalities: the positive recitation of "the content" in lines 1-2 appears to lack antecedent basis and appears to render the claim indefinite. Appropriate correction is required.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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- 12. Claims 1-4 and 7-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Chandrasekaran (US 6,093,157). Chandrasekaran discloses a composite guidewire (22,80,82), comprising:
- a distal end portion (the right portion of the guidewire in Figure 1), a main body
 portion (the left portion of the guidewire in Figure 1), and an intermediate portion (the
 middle portion of the guidewire in Figure 1) disposed between the distal end portion
 and the main body portion;
- wherein said main body portion comprises: a center layer (34,60,78) formed of a first material comprising a NiTi based alloy (column 4 lines 3-5); a surface layer formed of a second, more rigid material comprising stainless steel (49,64) (column 2 line 59 column 3 line 2 and column 5 lines 35-67); and (c) an intermediate layer (48) formed of a mixture of said first and second materials (column 4 line 66 column 5 line 10) between said center and surface layers (as best seen in Figure 5);
- wherein said main body portion has a structure in which said center layer, said
 intermediate layer, said surface layer are structurally disposed in this order from a
 center of said main body portion toward an exterior of said main body portion (as
 best seen in Figure 5) (column 2 line 59 column 3 line 2);
- wherein said distal end portion is formed of said first material, and is continuous with the center layer of said main body portion (as best seen in Figures 7-8):

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 wherein said intermediate portion comprises: the center layer (34,60,78) formed of the first material comprising a NiTi based alloy and an intermediate surface layer
 (48) formed of the mixture of said first material and said second material;

- wherein the mixture is decreased in the content of said first material toward said surface layer and increased in the content of said second material toward said surface layer such that a compositional gradually increasing gradient is formed in a radial direction (column 2 line 59 – column 3 line 2 and column 4 line 66 – column 5 line 10);
- wherein a weight ratio of the first to second material in the mixture is capable of being in the range of 1:9 to 9:1 and more specifically in the range of 3:7 to 7:3 because this ratio is inherently dependent upon material selection (as cited by Applicant, see Specification at least page 8 lines 1-4); and
- wherein said main body portion is capable of being formed by a sintered body, said sintered body having said center layer, said surface layer, and said intermediate layer, wherein said center layer is capable of being formed by sintering a powder of said first material, said surface layer is capable of being formed by sintering a powder of said second material, and said intermediate layer is capable of being formed by sintering a powder of said mixture of said first material powder and said second material powder.

Response to Arguments

13. Applicant's arguments with respect to claims 1-4 and 7-14 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey G. Hoekstra whose telephone number is (571)272-7232. The examiner can normally be reached on Monday through Friday, 8:00 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max F. Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/J.H./ Jeff Hoekstra Examiner, Art Unit 3736

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